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temporal expression Search

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1 **The sea urchin endomesoderm gene regulatory network, an encoded logic map for early development**
Davidson, E.H.;
Bioinformatics Conference, 2003. CSB 2003. Proceedings of the 2003 IEEE , 11-14 Aug. 2003
Pages:16

[Abstract] [PDF Full-Text (173 KB)] **IEEE CNF**

2 **Handling temporal relations in scheduling dialogues for an MT system**
Guillen, R.; Farwell, D.; Wiebe, J.;
Temporal Representation and Reasoning, 1996. (TIME '96), Proceedings., Third International Workshop on , 19-20 May 1996
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Papoutsakis, E.T.; Huang, L.T.; He Yang; Miller, W.M.;
[Engineering in Medicine and Biology, 2002. 24th Annual Conference and the Annual Fall Meeting of the Biomedical Engineering Society] EMBS/BMES Conference, 2002. Proceedings of the Second Joint , Volume: 1 , 2002
Pages:740 vol.1

[Abstract] [PDF Full-Text (183 KB)] **IEEE CNF**

4 **Modeling and analysis of temporal failure and degradation behavior of critical infrastructure systems**
Bassiouni, M.; Guha, R.;
System Sciences, 2002. HICSS. Proceedings of the 35th Annual Hawaii International Conference on , 7-10 Jan. 2002
Pages:689 - 694

[Abstract] [PDF Full-Text (339 KB)] **IEEE CNF**

5 **Effective representation and efficient management of indeterminate dates**
Grandi, F.; Mandreoli, F.;
Temporal Representation and Reasoning, 2001. TIME 2001. Proceedings.

Eighth International Symposium on , 14-16 June 2001
Pages:164 - 169

[Abstract] [PDF Full-Text (524 KB)] **IEEE CNF**

6 **Temporal interpretations of sentences with complement clauses**
Lee, H.-H.;
Tools with Artificial Intelligence, 1993. TAI '93. Proceedings. Fifth International Conference on , 8-11 Nov. 1993
Pages:488 - 490

[Abstract] [PDF Full-Text (280 KB)] **IEEE CNF**

7 **Qualitative modeling with temporal causality network and quantity network**
Yoon, W.C.;
Systems, Man and Cybernetics, 1989. Conference Proceedings., IEEE International Conference on , 14-17 Nov. 1989
Pages:1009 - 1010 vol.3

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1 Computing curricula 2001

September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, index terms

2 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff

January 1987 **Computational Linguistics**, Volume 13 Issue 1-2

Full text available: pdf(6.15 MB) Publisher Site Additional Information: full citation

4 Query evaluation techniques for large databases

Goetz Graefe

June 1993 **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Full text available: pdf(9.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex

objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality



5 Learning methods to combine linguistic indicators: improving aspectual classification and revealing linguistic insights

Eric V. Siegel, Kathleen R. McKeown

December 2000 **Computational Linguistics**, Volume 26 Issue 4

Full text available: pdf(1.96 MB) Publisher Site Additional Information: full citation, abstract, references

Aspectual classification maps verbs to a small set of primitive categories in order to reason about time. This classification is necessary for interpreting temporal modifiers and assessing temporal relationships, and is therefore a required component for many natural language applications.A verb's aspectual category can be predicted by co-occurrence frequencies between the verb and certain linguistic modifiers. These frequency measures, called linguistic indicators, are chosen by linguistic insi ...



6 A relational approach to monitoring complex systems

Richard Snodgrass

May 1988 **ACM Transactions on Computer Systems (TOCS)**, Volume 6 Issue 2

Full text available: pdf(3.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Monitoring is an essential part of many program development tools, and plays a central role in debugging, optimization, status reporting, and reconfiguration. Traditional monitoring techniques are inadequate when monitoring complex systems such as multiprocessors or distributed systems. A new approach is described in which a historical database forms the conceptual basis for the information processed by the monitor. This approach permits advances in specifying the low-level data collection, ...



7 Supporting valid-time indeterminacy

Curtis E. Dyreson, Richard T. Snodgrass

March 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 1

Full text available: pdf(516.09 KB) Additional Information: full citation, abstract, references, citings, index terms

In valid-time indeterminacy it is known that an event stored in a database did in fact occur, but it is not known exactly when. In this paper we extend the SQL data model and query language to support valid-time indeterminacy. We represent the occurrence time of an event with a set of possible instants, delimiting when the event might have occurred, and a probability distribution over that set. We also describe query language constructs to retrieve informat ...

Keywords: SQL, TSQL2, incomplete information, indeterminacy, probabilistic information, temporal dtabase, valid-time database



8 Power minimization in IC design: principles and applications

Massoud Pedram

January 1996 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 1 Issue 1

Full text available: pdf(550.02 KB) Additional Information: full citation, abstract, references, citings, index terms

Low power has emerged as a principal theme in today's electronics industry. The need for low power has caused a major paradigm shift in which power dissipation is as important as performance and area. This article presents an in-depth survey of CAD methodologies and techniques for designing low power digital CMOS circuits and systems and describes the many issues facing designers at architectural, logical, and physical levels of design abstraction. It reviews some of the techniques and tool ...

Keywords: CMOS circuits, adiabatic circuits, computer-aided design of VLSI, dynamic power dissipation, energy-delay product, gated clocks, layout, low power layout, low power synthesis, lower-power design, power analysis and estimation, power management, power minimization and management, probabilistic analysis, silicon-on-insulator technology, statistical sampling, switched capacitance, switching activity, symbolic simulation, synthesis, system design

9 Hyperdocuments as automata: verification of trace-based browsing properties by model checking

P. David Stotts, Richard Furuta, Cyrano Ruiz Cabarrus

January 1998 **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 1

Full text available: pdf(474.20 KB) Additional Information: full citation, abstract, references, citings, index terms

We present a view of hyperdocuments in which each document encodes its own browsing semantics in its links. This requires a mental shift in how a hyperdocument is thought of abstractly. Instead of treating the links of a document as defining a static directed graph, they are thought of as defining an abstract program, termed the links-automaton of the document. A branching temporal logic notation, termed HTL*, is introduced for specifying properties a document should exhibi ...

Keywords: Petri nets, browsing semantics, hypermedia, hypertext, model checking, temporal logic

10 Hyperdocuments as automata: trace-based browsing property verification

P. David Stotts, Richard Furuta, J. Cyrano Ruiz

December 1993 **Proceedings of the ACM conference on Hypertext**

Full text available: pdf(895.50 KB) Additional Information: full citation, references, citings, index terms

11 Validating real-time systems by history-checking TRIO specifications

Miguel Felder, Angelo Morzenti

October 1994 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 3 Issue 4

Full text available: pdf(2.35 MB) Additional Information: full citation, abstract, references, citings, index terms

We emphasize the importance of formal executable specifications in the development of real-time systems, as a means to assess the adequacy of the requirements before a costly development process takes place. TRIO is a first-order temporal logic language for executable specification of real-time systems that deals with time in a quantitative way by providing a metric to indicate distance in time between events and length of time intervals. We summarize the language and its model-parametric s ...

Keywords: first-order logic, formal specifications, model-theoretic semantics, requirements validation

12 Alternating-time temporal logic

Rajeev Alur, Thomas A. Henzinger, Orna Kupferman

September 2002 **Journal of the ACM (JACM)**, Volume 49 Issue 5

Full text available: pdf(345.26 KB) Additional Information: full citation, abstract, references, index terms

Temporal logic comes in two varieties: *linear-time temporal logic* assumes implicit universal quantification over all paths that are generated by the execution of a system; *branching-time temporal logic* allows explicit existential and universal quantification over all paths. We introduce a third, more general variety of temporal logic: *alternating-time temporal logic* offers selective quantification over those paths that are possible outcomes of games, such as the game in whic ...

Keywords: Alternation, games, model checking, temporaxl logic

13 The family of concurrent logic programming languages

Ehud Shapiro

September 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 3

Full text available: pdf(9.62 MB) Additional Information: full citation, abstract, references, citings, index terms

Concurrent logic languages are high-level programming languages for parallel and distributed systems that offer a wide range of both known and novel concurrent programming techniques. Being logic programming languages, they preserve many advantages of the abstract logic programming model, including the logical reading of programs and computations, the convenience of representing data structures with logical terms and manipulating them using unification, and the amenability to metaprogrammin ...

14 Technical reports

SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

15 Spoken dialogue technology: enabling the conversational user interface

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available: pdf(987.69 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

16 Generating test cases for real-time systems from logic specifications

Dino Mandrioli, Sandro Morasca, Angelo Morzenti

November 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 4

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We address the problem of automated derivation of functional test cases for real-time systems, by introducing techniques for generating test cases from formal specifications written in TRIO, a language that extends classical temporal logic to deal explicitly with time measures. We describe an interactive tool that has been built to implement these techniques, based on interpretation algorithms of the TRIO language. Several heuristic criteria are suggested to reduce drastically the size of t ...

17 Explanation-based learning: a survey of programs and perspectives

Thomas Ellman

June 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 2

Full text available: pdf(6.15 MB) Additional Information: full citation, abstract, references, citings, index terms

Explanation-based learning (EBL) is a technique by which an intelligent system can learn by observing examples. EBL systems are characterized by the ability to create justified generalizations from single training instances. They are also distinguished by their reliance on background knowledge of the domain under study. Although EBL is usually viewed as a method for performing generalization, it can be viewed in other ways as well. In particular, EBL can be seen as a method that performs fo ...

18 Implications of hierarchical N-body methods for multiprocessor architectures

Jaswinder Pal Singh, John L. Hennessy, Anoop Gupta

May 1995 **ACM Transactions on Computer Systems (TOCS)**, Volume 13 Issue 2

Full text available: pdf(4.66 MB) Additional Information: full citation, abstract, references, citings, index terms, review

To design effective large-scale multiprocessors, designers need to understand the characteristics of the applications that will use the machines. Application characteristics of particular interest include the amount of communication relative to computation, the structure of the communication, and the local cache and memory requirements, as well as how these characteristics scale with larger problems and machines. One important class of applications is based on hierarchical N-body methods, w ...

Keywords: N-body methods, communication abstractions, locality, message passing, parallel applications, parallel computer architecture, scaling, shared address space, shared memory

19 Knowledge, probability, and adversaries

Joseph Y. Halpern, Mark R. Tuttle

September 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 4

Full text available: pdf(3.77 MB) Additional Information: full citation, abstract, references, citings, index terms

What should it mean for an agent to know or believe an assertion is true with probability 9.99? Different papers [2, 6, 15] give different answers, choosing to use quite different probability spaces when computing the probability that an agent assigns to an event. We show that each choice can be understood in terms of a betting game. This betting game itself can be understood in terms of three types of adversaries influencing three different aspects of the game. The first selects the outcom ...

Keywords: Byzantine generals problem, coordinated attack problem, game theory, knowledge, probabilistic knowledge, probability

20 E-services: a look behind the curtain

Richard Hull, Michael Benedikt, Vassilis Christophides, Jianwen Su

June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(269.51 KB) Additional Information: full citation, abstract, references, index terms

The emerging paradigm of electronic services promises to bring to distributed computation and services the flexibility that the web has brought to the sharing of documents. An understanding of fundamental properties of e-service composition is required in order to take full advantage of the paradigm. This paper examines proposals and standards for e-services from the perspectives of XML, data management, workflow, and process models. Key areas for study are identified, including behavioral servi ...

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